



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Tomoya NISHIBATA et al.

Application No.: 09/584,769

Filed: June 1, 2000

For: SCROLL THRUST BEARING

Attorney Docket No. SNC-0001

Examiner: W. Joyce

Art Unit: 3682

Confirmation No. 5361

#8/A

D Nash  
6/14/02

**AMENDMENT UNDER 37 C.F.R. §1.111**

Commissioner for Patents  
Washington, DC 20231

Sir:

In response to the Office Action dated December 13, 2001, the period for response being extended to June 13, 2002, by the Petition for Extension of Time filed herewith, please amend the above-identified application as follows:

**IN THE CLAIMS:**

Please amend claims 1-3, 7, 9 and 23 as set forth below in clean form. Additionally, in accordance with 37 CFR 1.121(c)(1)(ii), amended claim(s) is/are set forth in a marked-up version in the page(s) attached to this Amendment.

1. (Amended) A scroll thrust bearing having a plurality of both-end conical rollers rotatably held between a pair of parallel bearing plates,

wherein said both-end conical rollers are composed of conical bodies having a pair of conical surfaces matched coaxially, and a relation of a scroll swirl radius (R) and a dimension (H) between opposite tracks of the bearing plates is set in a relation of  $1 < H/R < 5$ .

2. (Amended) The scroll thrust bearing of claim 1,  
wherein said pair of conical surfaces of the both-end conical roller are bonded at the bottom, and the bonded bottom of the both conical surfaces has a junction surface including an arc section continuous to the both conical surfaces, so